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Model #: SU1500RTXL2UA

SmartOnline Expandable 2U Rack/Tower UPS System - On-line, double-conversion, sine wave UPS with PDU switching, current monitoring and fault tolerant auto-bypass

Highlights

- 1500VA/1.5kVA online, double-conversion, extended-run 2U rack/tower UPS
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Maintains sine-wave 100/110 or 120V +/-2% output during overvoltages to 138V and brownouts as low as 65V (50/60Hz auto-sensing)
- Simultaneous communications via HID-compliant USB port, serial port, SNMP/Web card slot and EPO interface
- Fault tolerant auto-bypass mode, current monitoring and switched PDU control via 2 switchable output load banks
- Input: NEMA 5-15P (120V). Output: 6 NEMA 5-15R (120V).
- 2-year product warranty; $250,000 Ultimate Lifetime Insurance (USA & Canada only)

Description

1500VA online, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 19 in. Expandable battery runtime with optional BP48V24-2U and BP48V60RT-3U external battery packs. Full-time sine wave 100, 110 or 120V +/-2% output. Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 65V and overvoltages to 138V. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. NEMA 5-15P input plug and NEMA 5-15R output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces simultaneously. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated two-bank PDU switching supports load shedding and remote reboot of connected equipment. Three-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for better viewing in rackmount or tower configurations.Dataline surge suppression for dialup, DSL or network ethernet connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories included; 2-9USTAND tower kit and 2POSTRMKITWM 2-post rack & wallmount accessories available. Field replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. Two-year warranty and $250,000 connected equipment insurance; extended warranty and service contracts available.

Applications

- Ideal for protection of critical 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

Package Includes

- SU1500RTXL2Ua Online Double-Conversion UPS System

- PowerAlert Software and cabling
- Mounting hardware for 4 post rack enclosures
- Instruction manual with warranty information

Features

- SmartOnline high-performance UPS system is ideal for critical voice, data, medical and industrial network applications
- True on-line, double-conversion UPS provides perfectly regulated sine wave output within 2% of 100/110/120V (user selectable) under all usage conditions
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 65V and as high as 138V back to selectable 100/110/120V (+/-2%) values
- Standard internal battery set offers 14 min. runtime at half load (600W) and 5 min. at full load (1200W)
- Optional BP48V24-2U external battery pack increases runtime (limit 1)
- Optional BP48V60RT3U external battery pack increases runtime (multi-pack compatible)
- Compact rackmount form factor installs using only 2 rack spaces (2U) with a maximum installed depth of only 19 in.
- Ships with all mounting accessories for 4-post rackmount installation
- Optional 2POSTRMKITWM enables 2-post rackmount or wallmount installation
- Optional 2-9USTAND accessory enables small-footprint upright tower placement
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS suffers internal failure and requires maintenance
- Network interfaces support simultaneous communications via built-in USB, DB9 serial and SNMPWEBCARD slot
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints
- Built-in Emergency Power Off (EPO) interface with cable
- NEMA 5-15P input plug; NEMA 5-15R output receptacles
- Integrated 2-bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (bank one has 2 outlets, bank two has 4 outlets)
- Front panel LEDs offer current monitoring and battery charge level information
- UPS ships fully assembled in full compliance with DOT regulations; no time-consuming connection of internal batteries by user required
- Supports 2-post rackmount installation with optional 2POSTRMKITWM accessory
- Single-line tel/DSL or network Ethernet surge suppression
- 2-year manufacturer's product warranty; $250,000 Ultimate Lifetime Insurance

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC (100/110/120V)
Frequency compatibility	50/60 Hz compatible (auto-sensing)
OUTPUT	
Output VA	1500
Output watts	1200
Output nominal voltage	120V AC (100/110/120V)
Output voltage regulation	Maintains full-time sine wave output within 2% of selected nominal, less than 3% total harmonic distortion (linear load) / 5% total harmonic distortion (computer load) (Less than 5% THD on-line and on-battery)
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Outlet quantity / type	6 x NEMA 5-15R

Customized load management receptacles	2 controllable load banks support load shedding and remote reboot on demand of locked network devices (bankone has 2 outlets, bank two has 4 outlets)
Overload protection	20A input breaker
INPUT	
Maximum input amps	12A
Input connection type	NEMA 5-15P
Input cord length	10 ft./3m
Recommended Electrical Service	120V 15A
BATTERY	
Full load runtime	5 min. with internal batteries (1200W)
Half load runtime	14 min. with internal batteries (600W)
Expandable battery runtime	Supports extended runtime with optional external battery pack BP48V24-2U (limit 1) and BP48V60RT-3U (multi-pack compatible)
DC system voltage	48VDC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	Less than 5 hours to 90%
Replacement Battery Cartridge	RBC94-2U
VOLTAGE REGULATION	
Voltage regulation description	On-line, double-conversion power conditioning maintains output within 2% of 100/110/120 volts at all times
Overvoltage correction	Maintains output of selected nominal +/-2% during overvoltages to 138V AC
Brownout correction	Maintains output of selected nominal +/-2% during undervoltages to 65V AC (at loads greater than 70% undervoltage correction extends to 80V)
LEDS ALARMS & SWITCHES	
Front panel LEDs	LED STATUS DISPLAY: line power (green), on-line (green), bypass (yellow), on battery (green), overload (red), battery low (yellow) - 4 LED LOAD / BATTERY LEVEL DISPLAY (100%, 75%, 50%, 25%). LED display panel easily rotates for better viewing in rackmount or tower configurations.
Alarms	Multi-function audible alarm with distinctive ring patterns offer notification of backup operation (2 seconds on/0.5 seconds off), low battery warning (1.25 seconds on/0.5 seconds off), overload (sounds continuously), UPS fault (4.2 seconds on / 1 second off), input voltage out of frequency (2.1 seconds on/0.14 seconds off) and high input voltage (2.1 seconds on/0.07 seconds off)
Switches	Includes power off/on switch to enable system turn on (press ON switch), UPS battery test (press ON switch during normal AC operation), buzzer silence (press ON switch during battery operation) and OFF (press OFF switch) - all switch functions require that the switch be pressed and held for longer than 2 seconds, but less than 4 seconds
SURGE / NOISE SUPPRESSION	
AC surge suppression	480 joules
AC suppression response time	Instantaneous
Dataline suppression	Set of 8-wire RJ style interface jacks offer surge suppression for network ethernet or TEL/DSL connection. Pins 1,2,3 and 6 offer ethernet protection starting at 7.5V and the center two wires, pins 4 & 5, offer TEL/DSL line suppression starting at 260V
EMI / RFI AC noise suppression	Yes
PHYSICAL	

Shipping weight (lbs)	54
Shipping weight (kg)	24.5
Shipping Dimensions (HWD/in)	9.75 x 20.25 x 24
Shipping Dimensions (HWD/cm)	24.8 x 51.4 x 61
Unit weight (lbs)	44.1
Unit weight (kg)	20
Unit Dimensions (HWD/in)	3.5 x 17.5 x 19
Unit Dimensions (HWD/cm)	8.9 x 44.4 x 48.3
Material of construction	Steel
Form factors supported	Rack (2U)
Cooling method	Built-in cooling fan
Battery Access	User replaceable, hot swap battery replacement supported via front access panel
ENVIRONMENTAL	
Relative Humidity	0 to 95%, non-condensing
Storage Temperature	+5 to +122 degrees Fahrenheit; -15 to +50 degrees Celsius
Operating Temperature	+32 to +104 degrees Fahrenheit; 0 to +40 degrees Celsius
Line mode BTU/hr. (Max.)	612 btu/hr. (87% efficiency line mode)
Battery mode BTU/hr. (Max.)	667 btu/hr. (86% efficiency battery mode)
COMMUNICATIONS	
Network monitoring port	Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
Software and cabling included	Yes, includes PowerAlert software CD-ROM and complete cabling
SNMP compatibility	Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)
WatchDog compatibility	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipmentideal for unattended kiosk applications
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	Zero, online UPS continuously converts incoming AC to DC, then back to AC. When commercial power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power
Low voltage transfer to battery power	Maintains continuous operation during undervoltages as low as 65V (80V at load levels over 70%). Below this switchover point, output is supported from battery-derived AC power
High voltage transfer to battery power	Maintains continuous operation without using battery power during overvoltages to 138V. Above this point, output is supported from battery derived AC power
SPECIAL FEATURES	
EPO port	Supports "Emergency Power Off" via set of dedicated built-in EPO jacks

Cold Start	Inverter can be cold started to enable temporary AC output during a power failure
Appearance	Attractive all-black color scheme
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP48V24-2U, BP48V60RT3U (optional)
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), NOM (Mexico), Class A (emissions), FCC Part 68 / Industry Canada (telecommunications)
WARRANTY	
Product Warranty Period	2-year product warranty
Connected Equipment Coverage	$250,000 connected equipment insurance (USA and Canada only)
Optional Coverage	3-5 year warranties, plus next-day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.

Related Items

Audio Cables		
CT120	Instant-Read- AC Outlet Circuit Tester	Qty: [optional]

Extended Warranties		
WEXT3-500-1500	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]
WEXT5-500-1500	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]

External Battery Packs		
BP48V24-2U	BP48V242U - External Battery Pack for UPS System	Qty: [optional]
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	Qty: [optional]

Power Distribution		
PS7224	Tripp Lite Power Strip - Multiple outlets wherever you need them	Qty: [optional]
PDU1215	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]

Rackmount/Wallmount Kits		
2POSTRMKITWM	Universal 2-Post Rackmount Kit (Supports 2U to 4U UPS systems and battery packs.)	Qty: [optional]

Shutdown Cable Kits		
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	Qty: [optional]

SNMP Accessories		
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	Qty: [optional]
SNMPWEBCARD	For remote monitoring and control via SNMP, Web or telnet.	Qty: [optional]

Surge Protectors		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]

Tower Stands		
2-9USTAND	Tower Stand - Expandable Tower Base Stand UPS Accessory	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=2949.

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